

# VCPH-2450: DIGITAL IMAGING II

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## Cuyahoga Community College

**Viewing: VCPH-2450 : Digital Imaging II**

**Board of Trustees:**

2012-05-24

**Academic Term:**

Fall 2020

**Subject Code**

VCPH - VC-Photography

**Course Number:**

2450

**Title:**

Digital Imaging II

**Catalog Description:**

Advanced visual problem solving in digital imaging. Refined techniques for compositing and digital illustration in commercial based environments. Photographic images and components supplied and created by the student form the foundation on which projects are built for print, multimedia and Web applications.

**Credit Hour(s):**

3

**Lecture Hour(s):**

2

**Lab Hour(s):**

3

## Requisites

**Prerequisite and Corequisite**

VCPH-1450 Digital Imaging I, or departmental approval: prior digital imaging experience.

## Outcomes

**Course Outcome(s):**

A. Prepare digital photographs for use in a variety of electronic and digital publications media.

**Objective(s):**

1. 1. Explain the principles, concepts, and terminology used in digital photographic imaging.
2. 2. Explain the uses of photography in today's communications media.
3. 3. Demonstrate an advanced skill level in techniques used to create a product based photo composite.
4. 4. Discuss the ethical considerations of digitally altered photographic images.
5. 5. Discuss advanced digital color theory.
6. 6. Demonstrate advanced photographic illustration techniques.
7. 7. Edit or modify digitalized video into still images.
8. 8. Demonstrate facility in cosmetic retouching of portrait and fashion photographs.

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**Course Outcome(s):**

B. Use digital technology to create photographic illustrations.

**Objective(s):**

1. 2. Demonstrate an advanced skill level in techniques used to scan, modify and output digital photographs.
2. 3. Discuss various formats/file types for storing digital images.
3. 4. Demonstrate various ways to output digital files for different media.
4. 1. Identify hardware, software, and materials currently used in digital photographic imaging.

**Methods of Evaluation:**

1. Classroom assignments
2. Examinations
3. Participation in class

**Course Content Outline:**

1. Advanced digital color theory
    - a. Color models
    - b. Advanced color correction techniques
    - c. Color palette considerations regarding output needs
      - i. Photographic output
      - ii. Printed output
        1. Grayscale
        2. Process color
        3. Duotone
        4. Tri-tone
        5. Quadtone
      - iii. Web output
      - iv. Interactive multimedia
  2. Photographic illustration techniques
    - a. Advanced compositing techniques
      - i. Selection
      - ii. Masking
    - b. Advanced paint and image manipulation techniques
    - c. Use of vector graphics techniques in conjunction with raster imaging
    - d. Use of three dimensional rendering techniques in conjunction with raster imaging
    - e. Methods used to edit or modify digitized video as still images
  3. Planning digital files for multiple uses
    - a. Survey of currently used presentation formats for digital photographs
    - b. Photo, print, interactive multimedia, web, CD ROM portfolio
    - c. Resolution and file size considerations
    - d. Color palette considerations
    - e. File format considerations
    - f. Aesthetic characteristics of various output (presentation) formats
    - g. Storage and transmission considerations
  4. Output of digital files
    - a. Use of color printers to output digital photographs
    - b. Preparation of files for interactive multimedia use
    - c. Preparation of files for electronic transmission (web files).
    - d. Interface of raster image editing software with page layout, interactive multimedia, and web design software
    - e. Working with service bureau, printers, labs for digital output
  5. Technology
    - a. Relationship of technology to the form, content, meaning and use of photographs
    - b. Continuing changes in photographic imaging technology
    - c. Examination of the imaging conventions predicated on the use of photographic images
    - d. Changes in the uses of photographic images
    - e. Technology's impact on the meaning of photographs
  6. Digital imaging as a reflection of sociological concerns
    - a. Digitally manipulated imagery and propaganda
    - b. Photographic memes
  7. Current legal and ethical issues in communications media with regard to the use of electronically enhanced photographs
    - a. Digitally altered photojournalism
    - b. Cosmetically retouched and enhanced fashion portraits.
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## Resources

Evening, Martin. *Adobe Photoshop CC for Photographers*. 1st ed. New York: Routledge, 2015.

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Evening, Martin. *The Adobe Photoshop Lightroom Cc / Lightroom 6 Book: The Complete Guide for Photographers*. 1st ed. San Francisco: Adobe Press, 2015.

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Eismann, Katrin. *Adobe Photoshop Masking Compositing*. 2nd ed. Berkely, CA: New Riders Publishing, 2012.

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Varis, Lee and Sammon, Rick. *Skin: The Complete Guide to Digitally Lighting, Photographing, and Retouching Faces and Bodies*. 2nd ed. New York Sybex/John Wiley and Sons, 2010.

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## Resources Other

1. Digital Artists
  - a. <http://www.richardtuschman.com>
  - b. <http://maggietaylor.com> (<http://maggietaylor.com/>)
  - c. <http://www.mattmahurin.com> (<http://www.mattmahurin.com/>)
  - d. <http://www.lorettalux.de> (<http://www.lorettalux.de/>)
  - e. <http://www.parkeharrison.com> (<http://www.parkeharrison.com/>)
  - f. <http://www.kahnselesnick.com> (<http://www.kahnselesnick.com/>)
  - g. <http://www.loubeach.com> (<http://www.loubeach.com/>)
2. DVDs from VisCom library
3. Tri-C library/OhioLink
4. Handouts covering technical principles and procedures
5. Lab facilities: digital imaging lab, computer workstations

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